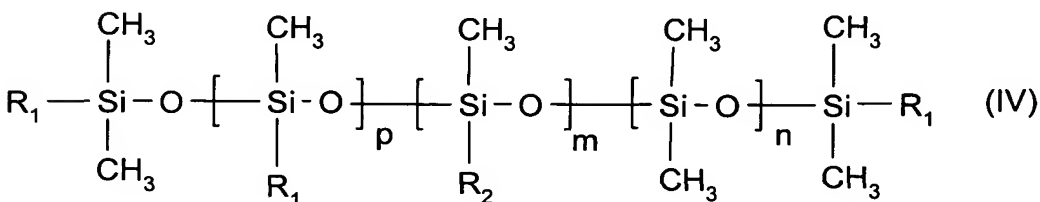
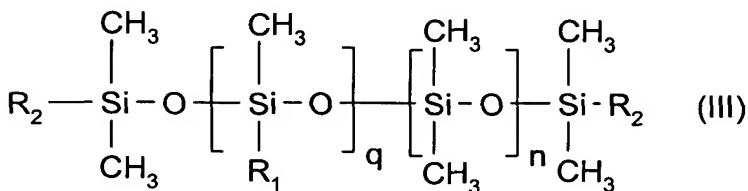
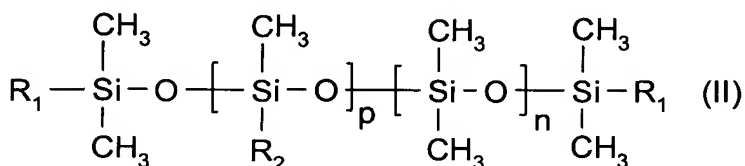
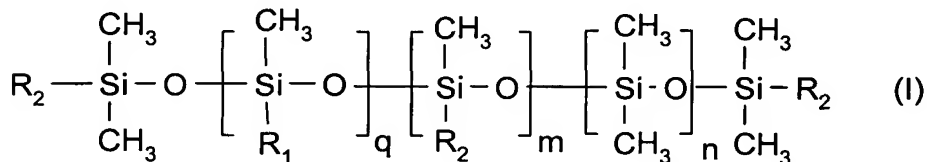


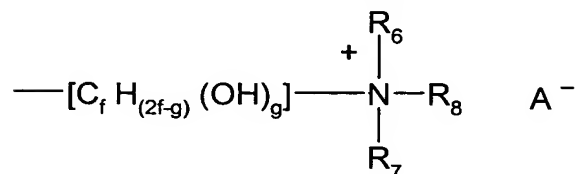
## CLAIMS

1. A nonwashing composition comprising water, at least one silicone containing quaternary ammonium groups, at least one cationic surfactant, at least two different cationic polymers, and at least one nonionic and nonassociative thickening polymer.
2. The composition as claimed in claim 1, wherein said silicone containing quaternary ammonium groups is selected from the group consisting of silicones corresponding to one of the following formulae:



in which formulae:

- R<sub>1</sub>, which may be identical or different, represents a C<sub>1</sub>-C<sub>30</sub> linear or branched alkyl group, or phenyl;
- R<sub>2</sub>, which may be identical or different, represents -C<sub>c</sub>H<sub>2c</sub>-O-(C<sub>2</sub>H<sub>4</sub>O)<sub>a</sub>-(C<sub>3</sub>H<sub>6</sub>O)<sub>b</sub>-R<sub>5</sub> or -C<sub>c</sub>H<sub>2c</sub>-O-(C<sub>4</sub>H<sub>8</sub>O)<sub>a</sub>-R<sub>5</sub>;
- R<sub>5</sub>, which may be identical or different, is selected from the group consisting of the groups having the following formula:



- the radicals R<sub>8</sub> independently represent a linear or branched C<sub>1</sub>-<sub>22</sub> alkyl or C<sub>2</sub>-<sub>22</sub> alkenyl radical optionally bearing one or more OH groups, or represent a group C<sub>h</sub>H<sub>2h</sub>ZCOR<sub>9</sub>;
  - R<sub>6</sub>, R<sub>7</sub> and R<sub>9</sub>, which may be identical or different, represent linear or branched C<sub>1</sub>-<sub>22</sub> alkyl or C<sub>2</sub>-<sub>22</sub> alkenyl radicals optionally bearing one or more OH groups, or R<sub>7</sub> may form with a portion of R<sub>8</sub> a heterocycle;
  - m ranges from 0 to 20;
  - n ranges from 0 to 500;
  - p ranges from 1 to 50;
  - q ranges from 0 to 20;
  - a ranges from 0 to 50;
  - b ranges from 0 to 50;
  - c ranges from 0 to 4;
  - f ranges from 0 to 4 ;
  - g ranges from 0 to 2;
  - h ranges from 1 to 4;
- Z represents an oxygen atom or NH,
- A<sup>-</sup> represents a monovalent mineral or organic anion such as a halide, a sulfate or a carboxylate.

3. The composition as claimed in claim 2, wherein said silicone is of formula (III).

4. The composition as claimed in claim 3, wherein said silicone corresponds to formula (III) in which at least one of the following conditions is met:

- c is equal to 2 or 3;
- $R_1$  denotes a methyl group;
- a and b are equal to zero;
- n ranges from 0 to 100;
- q is equal to 0;
- $f = 3$ ;
- $g = 1$ ;
- $R_6$  and  $R_7$  denote a methyl group;
- $R_8$  denotes a radical  $-(CH_2)-NHCOR_9$ .

5. The composition as claimed in claim 1, wherein said silicone is Quaternium-80.

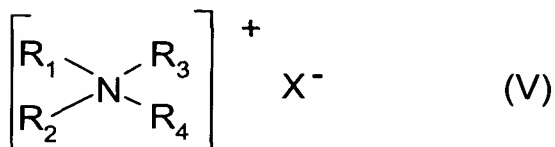
6. The composition as claimed in claim 1, wherein the silicone containing quaternary ammonium groups is provided in the form of a solution, a suspension or a dispersion in water.

7. The composition as claimed in claim 1, which contains the silicone containing quaternary ammonium groups in an amount of from 0.01% to 10% by weight relative to the total weight of the composition.

8. The composition as claimed in claim 1, wherein the cationic surfactant is selected from the group consisting of optionally polyoxyalkylenated primary, secondary or tertiary fatty amine salts, quaternary ammonium salts, and mixtures thereof.

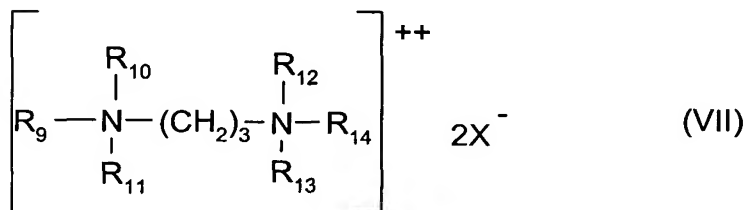
9. The composition as claimed in claim 8, comprising at least one quaternary ammonium salt selected from the group consisting of:

- those of general formula (V) below:



in which the symbols  $R_1$  to  $R_4$ , which may be identical or different, represent a linear or branched aliphatic radical containing from 1 to 30 carbon atoms, or an aromatic radical such as aryl or alkylaryl;  $X^-$  is an anion selected from the group consisting of the group of halides, phosphates, acetates, lactates,  $(C_2-C_6)$  alkyl sulfates and alkyl- or alkylaryl-sulfonates;

- quaternary ammonium salts of imidazoline;  
- diquaternary ammonium salts of formula (VII):

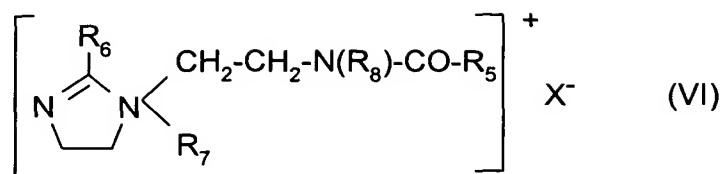


in which  $R_9$  denotes an aliphatic radical containing from about 16 to 30 carbon atoms,  $R_{10}$ ,  $R_{11}$ ,  $R_{12}$ ,  $R_{13}$  and  $R_{14}$ , which may be identical or different, are selected from the group consisting of hydrogen and an alkyl radical containing from 1 to 4 carbon atoms, and  $X^-$  is an anion selected from the group consisting of the group of halides, acetates, phosphates, nitrates and methyl sulfates;

- quaternary ammonium salts containing at least one ester function.

10. The composition as claimed in claim 9, comprising at least one quaternary ammonium salt of imidazoline selected from the group consisting of those of

formula (VI) below:



in which R<sub>5</sub> represents an alkenyl or alkyl radical containing from 8 to 30 carbon atoms, R<sub>6</sub> represents a hydrogen atom, a C<sub>1</sub>-C<sub>4</sub> alkyl radical or an alkenyl or alkyl radical containing from 8 to 30 carbon atoms, R<sub>7</sub> represents a C<sub>1</sub>-C<sub>4</sub> alkyl radical, R<sub>8</sub> represents a hydrogen atom or a C<sub>1</sub>-C<sub>4</sub> alkyl radical, and X is an anion selected from the group consisting of the group of halides, phosphates, acetates, lactates, alkyl sulfates, alkyl sulfonates or alkylaryl sulfonates, R<sub>7</sub> denotes methyl and R<sub>8</sub> denotes hydrogen.

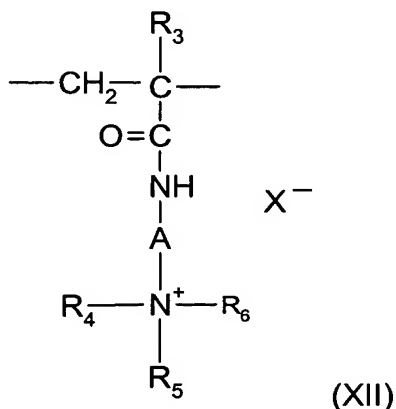
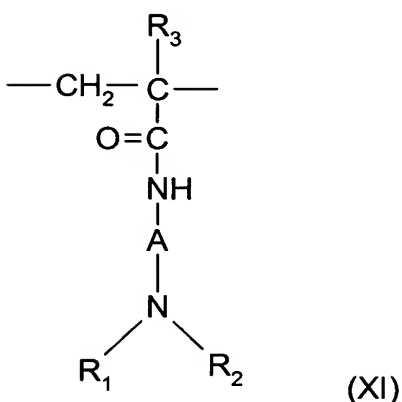
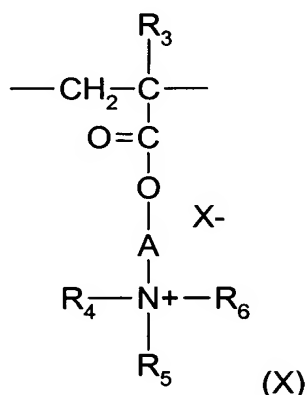
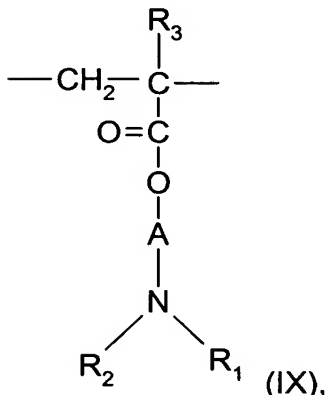
11. The composition as claimed in claim 1, wherein the cationic surfactant is selected from the group consisting of behenyltrimethylammonium chloride, cetyltrimethylammonium chloride, Quaternium-83, behenylamidopropyl-2,3-dihydroxypropyldimethylammonium chloride and palmitylamido-propyltrimethylammonium chloride.

12. The composition as claimed in claim 1, wherein the cationic surfactant is present in an amount of from 0.05% to 10% by weight relative to the total weight of the composition.

13 The composition as claimed in Claim 1, wherein the cationic polymers are selected from the group consisting of those containing units comprising primary, secondary, tertiary and/or quaternary amine groups that may either form part of the main polymer chain or may be borne by a side substituent directly attached thereto.

14. The composition as claimed in Claim 1, wherein said cationic polymers are selected from the group consisting of:

(1) homopolymers or copolymers derived from acrylic or methacrylic esters or amides and comprising at least one of the units of the following formulae:



in which:

R<sub>3</sub>, which may be identical or different, denote a hydrogen atom or a CH<sub>3</sub> radical;

A, which may be identical or different, represent a linear or branched alkyl group of 1 to 6 carbon atoms or a hydroxyalkyl group of 1 to 4 carbon atoms;

R<sub>4</sub>, R<sub>5</sub> and R<sub>6</sub>, which may be identical or different, represent an alkyl group containing from 1 to 18 carbon atoms or a benzyl radical;

R<sub>1</sub> and R<sub>2</sub>, which may be identical or different, represent hydrogen or an alkyl group containing from 1 to 6 carbon atoms;

X denotes an anion derived from a mineral or organic acid,

(2) cationic polysaccharides,

(3) polymers consisting of piperazinyl units and of divalent alkylene or hydroxyalkylene radicals containing straight or branched chains, optionally interrupted by oxygen, sulfur or nitrogen atoms or by aromatic or heterocyclic rings, as well as the oxidation and/or quaternization products of these polymers,

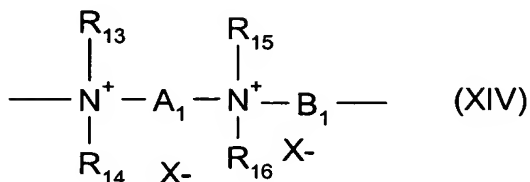
(4) water-soluble polyaminoamides prepared in particular by polycondensation of an acidic compound with a polyamine; these polyaminoamides can be crosslinked with an epihalohydrin, a diepoxide, a dianhydride, an unsaturated dianhydride, a bisunsaturated derivative, a bishalohydrin, a bisazetidinium, a bishaloacyldiamine, a bisalkyl halide or alternatively with an oligomer resulting from the reaction of a difunctional compound which is reactive with a bishalohydrin, a bisazetidinium, a bishaloacyldiamine, a bisalkyl halide, an epihalohydrin, a diepoxide or a bisunsaturated derivative; the crosslinking agent being used in proportions ranging from 0.025 to 0.35 mol per amine group of the polyaminoamide; these polyaminoamides can be alkylated or, if they contain one or more tertiary amine functions, they can be quaternized,

(5) polyaminoamides resulting from the condensation of polyalkylene polyamines with polycarboxylic acids followed by alkylation with difunctional agents,

(6) polymers obtained by reaction of a polyalkylene polyamine containing two primary amine groups and at least one secondary amine group with a dicarboxylic acid selected from the group consisting of diglycolic acid and saturated aliphatic dicarboxylic acids having from 3 to 8 carbon atoms,

(7) cyclopolymers of alkyldiallylamine or of dialkyldiallylammonium,

(8) quaternary diammonium polymers containing repeating units corresponding to the formula:



in which formula (XIV):

R<sub>13</sub>, R<sub>14</sub>, R<sub>15</sub> and R<sub>16</sub>, which may be identical or different, represent aliphatic, alicyclic or arylaliphatic radicals containing from 1 to 20 carbon atoms or lower hydroxyalkylaliphatic radicals, or alternatively R<sub>13</sub>, R<sub>14</sub>, R<sub>15</sub> and R<sub>16</sub>, together or separately, constitute, with the nitrogen atoms to which they are attached, heterocycles optionally containing a second hetero atom other than nitrogen, or alternatively R<sub>13</sub>, R<sub>14</sub>, R<sub>15</sub> and R<sub>16</sub> represent a linear or branched C<sub>1</sub>-C<sub>6</sub> alkyl radical substituted with a nitrile, ester, acyl or amide group or a group -CO-O-R<sub>17</sub>-D or -CO-NH-R<sub>17</sub>-D where R<sub>17</sub> is an alkylene and D is a quaternary ammonium group;

A<sub>1</sub> and B<sub>1</sub> represent polymethylene groups containing from 2 to 20 carbon atoms, which groups may be linear or branched, saturated or unsaturated, and which may contain, linked to or intercalated in the main chain, one or more aromatic rings or one or more oxygen or sulfur atoms or sulfoxide, sulfone, disulfide, amino, alkylamino, hydroxyl, quaternary ammonium, ureido, amide or ester groups, and

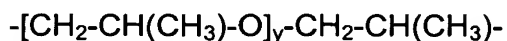
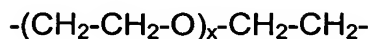
X<sup>-</sup> denotes an anion derived from a mineral or organic acid;

A<sub>1</sub>, R<sub>13</sub> and R<sub>15</sub> can form, with the two nitrogen atoms to which they are attached, a piperazine ring; in addition, if A<sub>1</sub> denotes a linear or branched, saturated or unsaturated alkylene or hydroxyalkylene radical, B<sub>1</sub> can also denote a group (CH<sub>2</sub>)<sub>n</sub>-CO-D-OC-(CH<sub>2</sub>)<sub>n</sub>-

in which D denotes:



a) a glycol residue of formula:  $-O-Z-O-$ , where Z denotes a linear or branched hydrocarbon-based radical or a group corresponding to one of the following formulae:



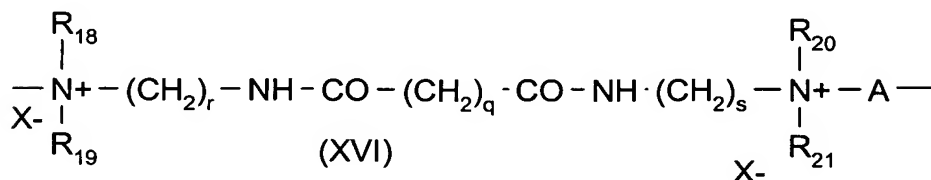
where x and y denote an integer from 1 to 4, representing a defined and unique degree of polymerization or any number from 1 to 4 representing an average degree of polymerization;

b) a bissecondary diamine residue such as a piperazine derivative;

c) a bisprimary diamine residue of formula:  $-NH-Y-NH-$ , where Y denotes a linear or branched hydrocarbon-based radical, or alternatively the divalent radical  $-CH_2-CH_2-S-S-CH_2-CH_2-$ ;

d) a ureylene group of formula:  $-NH-CO-NH-$ ;

(9) polyquaternary ammonium polymers consisting of units of formula (XVI):



in which formula:

$R_{18}$ ,  $R_{19}$ ,  $R_{20}$  and  $R_{21}$ , which may be identical or different, represent a hydrogen atom or a methyl, ethyl, propyl,  $\beta$ -hydroxyethyl,  $\beta$ -hydroxypropyl or  $-CH_2CH_2(OCH_2CH_2)_pOH$  radical,

where p is equal to 0 or to an integer between 1 and 6, with the proviso that  $R_{18}$ ,  $R_{19}$ ,  $R_{20}$  and  $R_{21}$  do not simultaneously represent a hydrogen atom,

r and s, which may be identical or different, are integers between 1 and 6,

q is equal to 0 or to an integer between 1 and 34,

X denotes a halogen atom,

A denotes a dihalide radical or represents  $-CH_2-CH_2-O-CH_2-CH_2-$ ,

(10) quaternary polymers of vinylpyrrolidone and of vinylimidazole,

(11) polyamines,

(12) crosslinked methacryloyloxy(C<sub>1</sub>-C<sub>4</sub>)alkyltri(C<sub>1</sub>-C<sub>4</sub>)alkylammonium salt polymers, and

(13) polyalkyleneimines, polymers containing vinylpyridine or vinylpyridinium units, condensates of polyamines and of epichlorohydrin, polyquaternary ureylenes and chitin derivatives.

15. The composition as claimed in claim 14, wherein said cationic polymers are selected from the group consisting of cationic cyclopolymers, cationic polysaccharides and quaternary polymers of vinylpyrrolidone and of vinylimidazole, and mixtures thereof.

16. The composition as claimed in claim 15, wherein said cyclopolymer is selected from the group consisting of diallyldimethylammonium chloride homopolymers and copolymers of diallyldimethylammonium chloride and of acrylamide.

17. The composition as claimed in claim 16, wherein said cationic polysaccharides are selected from the group consisting of starches modified with a 2,3-epoxypropyltrimethylammonium salt, guar gums modified with a 2,3-epoxypropyltrimethylammonium salt and hydroxyethylcelluloses that have reacted with an epoxide substituted with a trimethylammonium group.

18. The composition as claimed in claim 17, wherein said quaternary polymers of vinylpyrrolidone and of vinylimidazole are selected from the group consisting of copolymers of vinylpyrrolidone and of methylvinylimidazolium salts.

19. The composition as claimed in claim 1, wherein the composition comprises at least one cationic polysaccharide and at least one quaternary polymer of vinylpyrrolidone and of vinylimidazole.

20. The composition as claimed in claim 1, wherein the composition comprises at least one diallyldimethylammonium chloride homopolymer and at least one quaternary polymer of vinylpyrrolidone and of vinylimidazole.

21. The composition as claimed in claim 1, wherein each cationic polymer is present in a concentration ranging from 0.001% to 20% by weight relative to the total weight of the composition.

22. The composition as claimed in claim 1, wherein said thickening polymer is selected from the group consisting of:

- nonionic homopolymers and copolymers containing ethylenically unsaturated monomers of ester and/or amide type;
- vinylpyrrolidone homopolymers or copolymers; and
- polysaccharides.

23. The composition as claimed in claim 22, comprising a thickening polymer selected from the group consisting of polyacrylamides, methyl methacrylate/ethylene glycol dimethacrylate copolymers, butyl methacrylate/methyl methacrylate copolymers and polymethyl methacrylates.

24. The composition as claimed in claim 22, comprising a vinylpyrrolidone homopolymer.

25. The composition as claimed in claim 22, comprising a polysaccharide selected from the group consisting of glucans, modified or unmodified starches, amylose, amylopectin, glycogen, dextrans, celluloses and derivatives thereof

mannans, xylans, lignins, arabans, galactans, galacturonans, chitin, chitosans, glucuronoxylans, arabinoxylans, xyloglucans, glucomannans, pectic acids and pectins, arabinogalactans, carrageenans, agars, gum arabics, gum tragacanth, ghatti gums, karaya gums, carob gums, galactomannans and nonionic derivatives thereof, and mixtures thereof.

26. The composition as claimed in claim 1, wherein the thickening polymer is present in an amount of between 0.001% and 20% by weight relative to the total weight of the composition.

27. The composition as claimed in claim 1, further comprising at least one additional conditioner.

28. The composition as claimed in claim 27, wherein the additional conditioner is selected from the group consisting of silicones, carboxylic esters containing at least 12 carbon atoms, plant oils, mineral oils and synthetic oils, and mixtures thereof.

29. The composition as claimed in claim 1, comprising a cosmetically acceptable aqueous medium comprising said water and, optionally, a cosmetically acceptable solvent.

30. The composition as claimed in claim 29, wherein the cosmetically acceptable medium comprises a solvent selected from the group consisting of C<sub>1</sub>-C<sub>4</sub> lower alcohols, alkylene glycols, polyol ethers, C<sub>5</sub>-C<sub>10</sub> alkanes, acetone, methyl ethyl ketone, C<sub>1</sub>-C<sub>4</sub> alkyl acetates, dimethoxyethane and diethoxyethane, and mixtures thereof.

31. The composition as claimed in claim 1, further comprising an additive selected from the group consisting of anionic, nonionic or amphoteric polymers,

nonpolymeric thickeners, opacifiers, nacreous agents, vitamins, provitamins, waxes, natural or synthetic ceramides, fragrances, colorants, organic or mineral particles, preserving agents and pH stabilizers.

32. The composition as claimed in claim 1, which is in the form of a shampoo, a conditioner, a permanent-waving, relaxing, dyeing or bleaching composition for the hair or a rinse-out composition to be applied between the two steps of a permanent-waving or relaxing operation.

33. The composition according to claim 1, which is in the form of a rinse-out conditioner.

34. A method for conditioning or caring for keratin materials comprising applying thereto the composition of Claim 1.

35. A method for giving hair sheen comprising applying to hair in need thereof the composition of Claim 1.

36. A method for giving the hair suppleness, comprising applying to hair in need thereof the composition of Claim 1.